

AMENDMENTS TO THE CLAIMS

1. **(Currently Amended)** A print control apparatus that performs print processing for printing by controlling ~~controls~~ a printer engine in a printer which prints data contents based on print data indicating the contents to be printed, comprising:

a data generation unit operable to i) obtain the print data from outside the print control apparatus, and ii) generate print data with ~~an attribute~~ attributes by adding, to the print data, attribute information generated for the print data by the print control apparatus and indicating attributes of the print processing performed by the print control apparatus ~~the attribute of the print data~~;

a storage unit in which having a region for storing the print data with the attributes is stored ~~attribute~~;

a writing unit operable to write, into the storage unit, the print data with the ~~attribute~~ attributes generated by the data generation unit;

an arrangement display unit operable to arrange and display, based on an operation by a user, ~~each~~ print processing name ~~names included in the print data, each print processing name corresponding to one~~ of a plurality of ~~the~~ print data with ~~the an~~ attribute stored in the storage unit in an order according to the attribute information included in ~~each of~~ the plurality of print data with the attributes, each print processing name being a name included in and indicating the print data ~~attribute~~;

and

a print execution unit operable to i) ~~allow the user to select~~ allow the user to select one of the print processing names displayed on the arrangement display unit to be selected by the user, ~~unit~~; and ii) cause the printer engine to execute printing based on the print data of the print data with the attribute including ~~corresponding to~~ the selected print processing name.

2. **(Currently Amended)** The print control apparatus according to Claim 1,

wherein the arrangement display unit ~~further selects and displays a~~ the print processing name included in each print data corresponding to the one of the plurality of print data with the

~~attribute to which corresponding to the attribute information specified selected by the user belongs among the print processing names arranged in the order according to the attribute information.~~

3. **(Currently Amended)** The print control apparatus according to Claim 2,
wherein the data generation unit ~~i) generates attribute information using, as an attribute of the print data, an order in which the print data with the attribute generated from the print data is written into the storage unit by the writing unit, and ii) adds, to the print data, an order in which the print control apparatus writes through the writing unit the generated print data with an attribute into the storage unit, as the attribute information~~ the generated attribute information to the print data.

4. **(Canceled)**

5. **(Currently Amended)** The print control apparatus according to Claim 1,
wherein the data generation unit extracts, from the print data, information with which data other than the print data is recognized, as an identifier, and
the data generation unit adds, to the print data, the identifier as the attribute information ~~i) extracts, from the print data, information indicating an identifier with which the print data is identified by the user, ii) generates attribute information using the identifier as an attribute of the print data, and iii) adds the generated attribute information to the print data.~~

6. **(Currently Amended)** The print control apparatus according to Claim 5,
wherein the data generation unit i) extracts obtains, as the identifier, information indicating a creator's name of the print data, and ii) uses the ~~generates attribute information indicating the creator's name as the attribute information~~ name.

7. **(Currently Amended)** The print control apparatus according to Claim 6,
wherein the arrangement display unit arranges and displays the print processing name

included in the print data corresponding to the one of the plurality of print data~~said each print processing name of the plurality of print data in an order of fifty phonetic characters of the creator's name included, as an~~the attribute information, in each of the plurality of print data with the attribute.

8. **(Currently Amended)** The print control apparatus according to claim 1,
wherein the print control apparatus uses, and the attribute information, the number of pieces of paper required when the printer engine executes printing based on the print data, and
the data generation unit adds the attribute information to the print data~~data generation unit i) generates attribute information using, as an attribute of the print data, a number of papers needed when a printing based on the print data is executed by the printer engine and ii) adds the generated attribute information to the print data.~~

9. **(Currently Amended)** The print control apparatus according to Claim 1,
wherein the data generation unit adds, to the print data, information indicating the number of times a piece of print data is read out from the storage unit, as the attribute information, and i) generates attribute information indicating that there is no readout from the storage unit, ii) adds the generated attribute information to the print data, and iii) the print control apparatus updates, when the print data is read out from the storage unit for the printing by the print execution unit, contents of the attribute information~~corresponding~~added to the print data to a value associated with the number of times the print data has been read out.

10. **(Currently Amended)** The print control apparatus according to Claim 1,
wherein the data generation unit ~~i) generates attribute information indicating that there is no readout from the storage unit, ii) adds, to each print data, information indicating an order in which the print data is read out from the storage unit, as the attribute information~~the generated attribute information to the print data, and
the print control apparatus iii) updates, when the print data is read out from the storage unit for the printing by the print execution unit, contents of the attribute information~~corresponding~~added

to the print data to a value associated with an order in which the print data is read out from the storage unit.

11. **(Currently Amended)** The print control apparatus according to Claim 1,

wherein the data generation unit i) ~~generates attribute information using, as an attribute of the print data, an order in which the attributed print data generated from the print data is written into the storage unit by the writing unit, and ii) adds, to the print data, and order in which the print control apparatus writes, through the writing unit, the generated print data with the attribute into the storage unit, as the attribute information~~ the generated attribute information to the print data.

12. **(Currently Amended)** The print control apparatus according to Claim 1,

wherein the arrangement display unit preferentially displays a character ~~in a character string indicating said each print processing name from a character placed located~~ in a latter part of the a character string representing the print processing name string.

13. **(Currently Amended)** A print control method for performing print processing for printing by controlling a printer engine in a printer which prints data contents based on print data indicating the contents to be printed, comprising:

a data generation step of obtaining the print data, and generating print data with ~~an attribute~~ attributes by adding, to the print data, attribute information generated for the print data by a print control apparatus and indicating the ~~attribute~~ attributes of the print processing performed by the print control apparatus data;

a writing step of writing, into a memory, the print data with the ~~attribute~~ attributes generated in the data generation step;

an arrangement display step of arranging and displaying, based on a operation by a user, each print processing ~~name~~ names included in each print data, each print processing name corresponding to one of a plurality of print data with ~~the an~~ an attribute stored in the memory in an order ~~corresponding~~ according to the attribute information included in ~~each of~~ the plurality of print data with the

attributes, the print processing name being a name included in and indicating the print data attribute;
and

a print execution step of (i) ~~allowing a the user to select selection~~ of one of the print processing names displayed in the arrangement display step by a user and (ii) causing the printer engine to execute printing based on the print data ~~corresponding to~~ of the print data with the attribute including the selected print processing name.

14. **(Currently Amended)** The print control method according to Claim 13,

wherein in the arrangement display step, ~~a the print processing name is further selected and displayed, the print processing name corresponding to including in each print data corresponding to the one of the plurality of print data with the attribute to which the attribute information specified selected by a the user belongs to displayed among the print processing names arranged in the order according to the attribute information.~~

15. **(Currently Amended)** The print control method according to Claim 14,

wherein in the data generation step, ~~attribute information is generated using, as an attribute of the print data, an order in which the generated print data with the attribute generated from the print data is written into the memory in the writing step and the generated attribute information is added to the print data as the attribute information data.~~

16. **(Canceled)**

17. **(Currently Amended)** The print control method according to Claim 13,

wherein ~~in the data generation step, information with which print data other than the print data is recognized by the user is extracted from the print data an identifier data, attribute information is generated using the identifier as an attribute of the print data, and~~

in the data generation step, the identifier is added to the print data as the attribute information~~the generated attribute information is added to the print data, the information indicating~~

the identifier with which the print data is identified by the user.

18. (Currently Amended) The print control method according to Claim 13,

wherein in the data generation step, ~~attribute information is generated using, as an attribute of the print data, a number of papers needed for causing the printer engine to execute the printing based on the print data, and the generated attribute information~~ the number of pieces of paper required when the printer engine executes printing based on the printing data is used as the attribute information, and the attribute information is added to the print data.

19. (Currently Amended) The print control method according to Claim 13,

wherein in the data generation step, ~~attribute information is generated, the generated attribute information is added to the print data, and when the print data is read out from the memory for the printing in the print execution step, indicating the number of times a piece of print data is read out from the memory is added to the print data as the attribute information and, contents of the attribute information corresponding to the print data is updated to a number of times the print data is read out, the attribute information indicating that there is no readout from the memory.~~

contents of the attribute information added to the print data is updated to a value associated with the number of times the print data has been read out when the print data is read out from the memory for the printing in the print execution step.

20. (Currently Amended) The print control method according to Claim 13,

wherein in the data generation step, ~~attribute information is generated, the attribute information indicating an order in which the print data is read out from the memory is added to each the print data as the attribute information data, and when the print data is read out from the memory for the printing in the print execution step, contents of the attribute information corresponding to the print data to an order in which the print data is read out from the memory, the attribute information indicating that there is no readout from the memory.~~

contents of the attribute information added to the print data are updated to a value associated

with the order in which the print data is read out from the memory when the print data is read out from the memory for the printing in the print execution step.

21. **(Currently Amended)** The print control method according to Claim 13,

wherein in the data generation step, ~~attribute information is generated using, as an attribute of the print data, an order in which the attributed print data generated from the print data the print data with the attribute information is written into the memory in the writing step, and the generated attribute information is added to the print data as the attribute information data.~~

22. **(Currently Amended)** The print control method according to Claim 13,

wherein in the arrangement display step, a character ~~of a character string indicating said each print processing name is preferentially displayed from a character placed located in a latter part of the a character string representing the print processing name is preferentially displayed string.~~

23. **(Currently Amended)** A program stored on a computer-readable medium for causing a computer to perform print processing for printing by for controlling a printer engine in a printer which prints data contents based on print data indicating the contents to be printed, the program causing a computer to execute:

a data generation step of obtaining the print data, and generating print data with ~~an attribute~~ attributes by adding, to the print data, attribute information generated for the print data by a print control apparatus and indicating the ~~attribute attributes~~ of the print processing performed by the print control apparatus ~~print data~~;

a writing step of writing, into a memory, the print data with the ~~attribute attributes~~ generated in the data generation step;

an arrangement display step of arranging and displaying, based on an operation by a user, ~~each print processing name~~ names included in each print data, each print processing name corresponding to one of a plurality of the print data with the an attribute stored in the memory in an order according to attribute information included in each of the plurality of the print data with the

attributes, the print processing name being a name included in and indicating the print data attribute;
and

a print execution step of (i) ~~allowing a user to select one of~~ the print processing names displayed in the arrangement display step to be selected by a user and (ii) causing the printer engine to execute printing based on the print data corresponding to of the print data with the attribute including the selected print processing name.

24. **(Currently Amended)** The program according to Claim 23,

wherein in the arrangement display step, ~~a the print processing name is further selected and displayed, the print processing name corresponding to included in each print data corresponding to the one of the plurality of print data with the attribute to which the attribute information specified selected by the user belongs is displayed among the print processing names arranged in the order according to the attribute information.~~

25. **(Currently Amended)** The program according to Claim 23,

wherein in the data generation step, ~~the attribute information is generated using, as an attribute of the print data, an order in which the generated print data with the attribute generated from the print data is written into the memory in the writing step, and the generated attribute information is added to the print data as the attribute information data.~~

26. **(Currently Amended)** A printer comprising a printer engine which prints data contents based on print data indicating the contents to be printed and a print control apparatus which performs print processing for printing by controlling controls the printer engine,

wherein the print control apparatus includes:

a data generation unit operable to i) obtain the print data from outside the print control apparatus and ii) generate print data with ~~an attribute attributes~~ by adding, to the print data, attribute information generated for the print data by the print control apparatus and indicating the attribute attributes of the print processing performed by the print control apparatus print data;

a storage unit ~~having a region for storing in which the~~ print data with the attributes is stored~~attribute;~~;

a writing unit operable to write, into the storage unit, the print data with the attribute attributes generated by the data generation unit;

an arrangement display unit operable to arrange and display, based on an operation by a user, ~~each processing name~~ names included in each print data corresponding to one of a plurality of print data with the an attribute stored in the storage unit in an order according to the attribute information included in each one of the plurality of print data with the attributes, each print processing name being a name included in and indicating the print data~~attribute;~~ and

a print execution unit operable to i) allow a user to select one of the print processing names displayed on the arrangement display unit, and ii) cause the printer engine to execute printing based on the print data ~~corresponding to of the print data with the attribute including~~ the selected print processing name.

27. **(Currently Amended)** The printer according to Claim 26,

wherein the arrangement display unit ~~further selects and displays a the~~ print processing name ~~corresponding to~~included in each print data corresponding to the one of the plurality of print data with the attribute to which the attribute information specified by the user ~~belongs among the print processing names arranged in the order according to the attribute information.~~

28. **(Currently Amended)** The printer according to Claim 26,

wherein the data generation unit ~~generates attribute information using, as an attribute of the print data, adds, to the print data,~~ an order in which the ~~print data with the attribute generated from the print data is written into the storage unit by the writing unit,~~print data with the attribute into the storage unit, as the attribute information and adds the generated attribute information to the print data.